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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,357	07/21/2006	Hiroaki Shimokawa	P30188	9832
	7590 09/10/200 & BERNSTEIN, P.L.	EXAMINER		
	CLARKE PLACE		FINN, MEGHAN R	
KESTON, VA	20191		ART UNIT	PAPER NUMBER
			1614	
			NOTIFICATION DATE	DELIVERY MODE
			09/10/2009	ELECTRONIC

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gbpatent@gbpatent.com pto@gbpatent.com

Office Action Summary		Applica	Application No. Applicant(s)			
		10/597	,357	SHIMOKAWA, H	SHIMOKAWA, HIROAKI	
		Examin	er	Art Unit	T	
		MEGHA	AN FINN	1614		
Period fo	The MAILING DATE of this commun or Reply	ication appears on t	he cover sheet wi	th the correspondence a	ddress	
A SH WHIC - Exter after - If NC - Failu Any I	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MINIORS of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum stare to reply within the set or extended period for reply reply received by the Office later than three months are patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF of 37 CFR 1.136(a). In no unication. In tutory period will apply and will, by statute, cause the a	THIS COMMUNIC event, however, may a red will expire SIX (6) MON application to become AB	CATION.  eply be timely filed  THS from the mailing date of this ANDONED (35 U.S.C. § 133).	·	
Status						
· · · · · · · · · · · · · · · · · · ·	Responsive to communication(s) file This action is <b>FINAL</b> . Since this application is in condition closed in accordance with the practic	2b)∏ This action is for allowance exce	pt for formal matte	· •	ne merits is	
Dispositi	on of Claims					
5)□ 6)⊠ 7)□ 8)□ <b>Applicat</b> i	Claim(s) 1-12 is/are pending in the at 4a) Of the above claim(s) 1-4 is/are version (s) 5-12 is/are rejected.  Claim(s) 5-12 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restrict (so Papers)  The specification is objected to by the The drawing(s) filed on is/are:  Applicant may not request that any object (so Including Sheet(s) including Sheet(s	vithdrawn from con tion and/or election e Examiner. a) □ accepted or ction to the drawing(s	n requirement. b)	ce. See 37 CFR 1.85(a).	CFR 1.121(d).	
11)	The oath or declaration is objected to	by the Examiner.	Note the attached	Office Action or form P	TO-152.	
Priority ι	ınder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) 🔲 Notic 3) 🔯 Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>7/09/09; 5/01/09; 9/1/09</u> .	TO-948)	Paper No(s	summary (PTO-413) s)/Mail Date nformal Patent Application 		

Applicant's Amendment filed May 01, 2009 has been received and entered into present application. No claims were canceled and claims 9-12 were added by applicant. Claims 1-4 remain withdrawn and thus claims 5-12 are under examination.

Applicants' arguments, filed May 01, 2009, have been fully considered but they are not deemed to be persuasive. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

Applicant submitted identical Information Disclosure Statements (IDS) on May 01, 2009 and July 09, 2009. Only the abstract of the Hui-yu et al., reference was in English and thus that was all that was considered on the May 01, 2009 IDS. Since the July 09, 2009 IDS was a duplicate none of those references were marked considered to avoid duplication. In the IDS submitted September 01, 2009 the Batchelor et al. reference is already of record and therefore not considered to avoid duplication.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Batchelor et al. (Rho-kinase inhibitors prevent agonist-induced vasospasm in human internal mammary artery, already of record in the previous office action mailed February 05, 2009) in view of Trimboli et al. (Coronary artery spasm after off-pump coronary artery bypass grafting).

Applicant has amended the claims such that they now read upon a method of treating vasospasms caused by an off pump beating coronary artery bypass grafting with a compound of formula I, which encompasses fasudil or hydroxyfasudil. As discussed in the previous office action, fasudil is also known as HA1077 and Batchelor et al. teaches that vasospasms are an important problem in the recovery from bypass graft surgery and the causes are multi-factorial (page 302, paragraphs 1-2). They also teach that HA1077 was a relaxant (point 3 of abstract) and that Rho-kinase-inhibitors (such as HA1077) play an important role in preventing vasospasms (point 5 of abstract). They further teach that common L-type Ca2+ channel blockers such as verapamil as well as nitrates often are ineffective against such vasospasm (page 302, 3<sup>rd</sup> paragraph). Additionally, they teach that HA1077 completely reversed the submaximal contraction caused by administration of U46619 (which was used to cause contraction as demonstrated in figure 1, page 304). Thus it would have been obvious to one of ordinary skill in the art at the time of the invention that HA1077 can be used to treat vasospasms, including those that do not respond to drugs such as verapamil or nitrates. Batchelor et al. does not teach treating patients that have undergone off pump beating

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coronary artery bypass grafting, however Trimboli et al. teaches that coronary artery spasms are a problem in off pump coronary artery bypass (OPCAB) and describe a patient who experienced persistent coronary spasms after surgery (page 830, background). They further teach that coronary artery spasms reportedly occur in up to 1.3% of patients and it is suspected that even higher percentage is present that are undiagnosed (pave 832, paragraph 5). It would have been obvious to one of ordinary skill in the art at the time of the invention that fasudil (HA1077) can be used to treat and reduce the number of vasospasms occurring after surgery, and given then that coronary artery spasms, which are a type of vasospasm, are a problem in off pump beating coronary artery bypass grafting it would be obvious to use a known treatment for vasospasms on those patients. Even more motivation to use fasudil on patients that did not respond to the calcium antagonists and nitrate compounds that are reportedly ineffective in some patients (Batchelor, page 302). In claims 6-12, applicant claims specific locations for the vasospasms and grafting location, however one of ordinary skill in the art at the time of the invention would have no reason to believe that fasudil would not treat the vasospasm regardless of location. Thus claims 5-12 are unpatentable over Batchelor et al. in view of Trimboli et al.

## Conclusion

No Claims of the present application are allowed.

New rejections of claims 5-12 are necessitated by the amendment to the claims.

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Friday (EST).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Meghan Finn whose telephone number is (571) 270-3281. The examiner can normally be reached on 8:30am-6pm Mon-Thu, 8:30am-5pm

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin Marschel can be reached on 571-272-0718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Meghan Finn

/Ardin Marschel/ Supervisory Patent Examiner, Art Unit 1614